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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/777,228	/777,228 02/13/2004		Angel Lorenzo Barroso	Q-79063	2507
23373	7590	11/25/2005		EXAMINER	
SUGHRUE		PLLC IA AVENUE, N.W.	. KIM, SANG K		
SUITE 800	SILVAN	IA A VENUE, N.W.	. ART UNIT	PAPER NUMBER	
WASHING [*]	ron, dc	20037	3654		

DATE MAILED: 11/25/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Applic	ation No.	Applicant(s)	
		10/777	7,228	LORENZO BARROSO, ANGEL	
Office Action Summary			ner	Art Unit	
		SANG	KIM	3654	
Period fo	The MAILING DATE of this communic r Reply	ation appears on	the cover sheet with the	correspondence ad	ddress
WHIC - External after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MA asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this community of the period for reply is specified above, the maximum stature to reply within the set or extended period for reply with eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ILING DATE OF 37 CFR 1.136(a). In no ication. tory period will apply ar II, by statute, cause the	THIS COMMUNICATION of event, however, may a reply be to divid will expire SIX (6) MONTHS from application to become ABANDON	N. imely filed in the mailing date of this of ED (35 U.S.C. § 133).	
Status					•
1)	Responsive to communication(s) filed	on 14 October 2	005.		
•	· ·)☐ This action i			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the					
	closed in accordance with the practice	under <i>Ex parte</i>	Quayle, 1935 C.D. 11, 4	153 O.G. 213.	
Dispositi	on of Claims				
4)⊠	Claim(s) 1-20 is/are pending in the ap	plication.			
•	4a) Of the above claim(s) is/are		consideration.		
5)	Claim(s) is/are allowed.			*	
6)⊠	Claim(s) 10-20 is/are rejected.				
7)🖂	Claim(s) <u>1-9</u> is/are objected to.				
8)□	Claim(s) are subject to restriction	on and/or electio	n requirement.		
Applicati	on Papers				
9)	The specification is objected to by the	Examiner.			•
• -	The drawing(s) filed on 14 October 200		ccepted or b) objecte	d to by the Examir	ner.
,	Applicant may not request that any objecti			•	
•	Replacement drawing sheet(s) including the				FR 1.121(d).
11)	The oath or declaration is objected to b		•	•	• •
Priority ι	ınder 35 U.S.C. § 119				
	Acknowledgment is made of a claim fo	r foreign priority	under 35 U.S.C. § 119(a	a)-(d) or (f).	
a)	All b) ☐ Some * c) ☐ None of: All control in the				
	1. Certified copies of the priority do				
	2. Certified copies of the priority do				
	3. Copies of the certified copies of			/ed in this National	Stage
* 6	application from the Internationa	· ·	• • •		
	See the attached detailed Office action	ior a list of the co	ertilled copies not receiv	ea.	
Attachmen					
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTC	D-948)	4) Interview Summar Paper No(s)/Mail [
3) 🔯 Infor	nation Disclosure Statement(s) (PTO-1449 or P ^T r No(s)/Mail Date <u>10/14/05</u> .		5) Notice of Informal 6) Other:		O-152)

Claim Objections

Claims 1-9 are objected to because of the following informalities:

It is suggested that claim 1 should be rewritten as it follows:

Line 6, delete the phrase, "transversally inwards and";

Line 11, "section that varies," should be –cross section that varies over a length thereof,--;

Line 12, delete the phrase, "in a movement similar to winding,".

Appropriate corrections are required.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 18-19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 18-19 are indefinite and vague. How can a cross sectional area of the grooves and flanges be constant when the independent claim 10 states that the cross sectional area of the annular groove and the flange varies? Claims 18-19 are contradicting the independent claim 10. Because of the indefiniteness, claims 18-19 cannot be meaningfully treated with respect to the prior art at this time.

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The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 10-14, 16-17, and 20 are rejected under 35 U.S.C. 102(e) as being anticipated by Charlton, US 2002/0053625 A1.

With respect to claims 10 and 20, Charlton '625 shows a central body 14 with a flange 7 at a first end of the central body; a disc 9 at the first end of the central body; wherein the disc comprises an annular groove (near 7a and 8a which are in the recess area); wherein the flange 7 is removably fitted with the annular groove; and wherein a cross-sectional area of at least one of the annular groove and the flange over a length thereof (each spaced tooth 7 corresponds to with each spaced tooth 7a from the base and they both have a cross-sectional area that varies); wherein when the flange 7 is fitted with the annular groove and the disc 9 is rotated in a first direction (when assembling the spool) with respect to the central body, the frictional fit between the groove and the flange increases, and when the disc is rotated in a second direction (when disassembling the spool), opposite the first direction, the frictional fit between the groove and flange decreases, see figures 1-5.

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With respect to claims 11-12, Charlton '625 shows a second disc (9 on the other end) with a second annular groove which is a mirror image of the first disc, see figures 1-5.

With respect to claims 13-14, Charlton '625 shows the central body comprises two separate semi-cylindrical halves 5,6, see figure 1.

With respect to claim 16, Charlton '625 shows the flanges (near the end wall 6) have a substantially triangular cross-section, see figure 1.

With respect to claim 17, Charlton '625 shows the flanges further comprises indentations 8 at each end which are arranged between portions of the flanges, see figure 1.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Charlton, US 2002/0053625 A1, in view of Crellin, Jr. U.S. Patent No. 3785584.

Charlton '625 shows the discs 9 have a diameter which is greater than the diameter of the central body 14 and wherein the discs further comprise central recesses, see figures 1-5.

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Crellin '584 shows the discs 10 have a diameter which is greater than the diameter of the central body 12 and wherein the discs further comprise central openings, see figure 1.

Charlton '625 discloses the claimed invention except for central openings on the discs. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the recesses of the Charlton '625 into openings as taught by Crellin '584, to help reduce weight or save material cost.

Allowable Subject Matter

Claim 1 would be allowable if rewritten or amended to overcome the objection(s), set forth in this Office action.

Claims 2-9 would be allowable if rewritten to overcome the objection(s), set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.

Response to Arguments

Claims 10-20 have been added.

Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

The amendment adding new claims 10-20 necessitated the new grounds of rejection as set forth above.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SANG KIM whose telephone number is 571-272-6947. The examiner can normally be reached Monday through Friday from 8:00 A.M. to 5:30 P.M. alternating Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kathy Matecki, can be reached on (571) 272-6951. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for

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SK

11/18/05

KATHY MATECKI

SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3600